

was introduced into a large amount of methanol to precipitate a total amount of polymer. Then, hydrochloric acid was added, and the mixture was filtered through a glass filter. The resultant polymer was vacuum dried at 80°C for 10 hours to obtain 92 mg of polyethylene. The polymerization activity was 36.8g-PE/mmol-V·hr.

The undersigned declares further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

this 14 day of November , 2003

Shigekazu Matsui
Shigekazu MATSUI



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of

Group Art Unit: 1713

SUZUKI, Yasuhiko, et al.

Examiner: Lee

Serial No. 10/009,738

Filed: December 17, 2003

For: PROCESS FOR POLYMERIZING OLEFINS

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The Honorable Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Washington, D. C. 20231

Sir:

DECLARATION UNDER 37 CFR 1.132 (1)

I, Shigekazu MATSUI, declare and state that:

1. I am a citizen of Japan, and residing at 2-4-1,
Yushudai-nishi, Ichihara-city, Chiba, Japan.

In March 1988, I was graduated from Science University of Tokyo (SUT), Department of Applied Chemistry, and received a Bachelor degree of Science from SUT. In March 1990, I was graduated from the graduate course of SUT, majoring in Chemistry, and received a Master degree of Science from SUT. In October 2001, I received a Doctor degree of Engineering from the University of Tokyo.

Since April 1990, I have been an employee of Mitsui Chemicals, INC. I had been assigned to Life Science Laboratory

from September 1990 to September 1993. I had been assigned to Synthesis Laboratory, Petrochemicals Laboratory, and Material Science Laboratory (*the organization was revised in turn*) of the above company, October 1993 to March 2001. I had been assigned to Catalysis Science Laboratory of the above company, Molecular Catalyst Group from April 2001 to June 2002. Till the present time, I have been assigned to Catalyst Science Laboratory of the above company, Polymerization Catalysis Group from July 2003.

2. I am a co-inventor of the invention described in the specification of the above-identified application.

3. The following Experiment was carried out in order to differentiate the ethylene copolymers used in the present invention from those disclosed in the cited reference.

[Experiment A]

To a 500-mL glass autoclave thoroughly purged with nitrogen, 250 mL of toluene was introduced, and the liquid and gas phase were saturated with ethylene. Thereafter, 0.25 mmol of triisobutylaluminum and then 0.005 mmol of the complex compound (C-3) and 0.006 mmol of triphenylcarbenium tetrakis(pentafluorophenyl)borate were added to initiate polymerization. The reaction was conducted at 50°C for 30 minutes in an ethylene gas atmosphere at atmospheric pressure. After the polymerization was completed, the reaction product